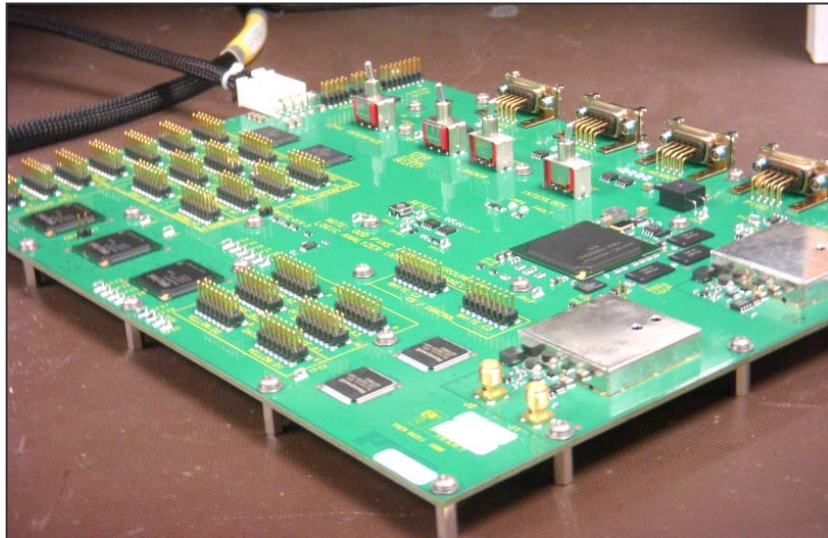


Week ending May 9, 2009



**Honeywell Aerospace in Olathe, Kansas, has received their first Orion GPS Receiver prototype unit (Photo left).**

The unit will undergo engineering test to demonstrate the integration of the NASA Goddard Space Flight Center fast-acquisition algorithms with the Honeywell GPS receiver design. The GPS receiver on Orion is a high criticality hardware component providing absolute position and velocity knowledge for the Guidance, Navigation & Control subsystem.



**The PA1 Launch Abort System Abort Motor (Photo left) arrived at**

**White Sands Missile Range in New Mexico after a 14-hour journey from ATK's Salt Lake City facility**

The motor will be fully integrated with the other system motors in preparation for the Pad Abort 1 flight test this fall.



**The Pad Abort 1 flight test crew module was moved to aircraft jacks and the adapter cone was successfully installed for acoustic testing (Photo right).**

The speakers arrived for conduct of the low level acoustic tests followed by the high level tests.





**The Ground Test Article (GTA) assembly progress continues at the Michoud Assembly Facility. The second friction-stir weld operation joining the cone orthogrid panel to the second cone longeron is complete.**



**The Landing and Descent Team conducted the second “system of struts” test with the rigid pallet and nine struts were conducted with impact conditions of 32 fps velocity and 15 G acceleration pulse.**

The maximum strut displacement occurred in struts #3 and #4 and close to the 4 inch level predicted by LS-Dyna model. The results from the first two tests show good correlation between the strut test and LS-Dyna.

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## **Communications, Public Engagement and Recognition**

- **NASA/Lockheed Martin reps visited the Hamilton Sundstrand facility in Rockford, Illinois and the Challenger Center in Woodstock, Illinois as site visits for future outreach event planning throughout the state.**

### ***Congratulations to the Orion 2009 Stellar Award winners this year:***

- **Carol Webber, Orion Program Integration Director**, for her exemplary achievement in leading the Orion Composite Crew Cabin trade study to a consensus recommendation and securing a prompt decision from the NASA Administrator.
- **The External Tank Engine Cut-Off System Redesign and Certification team from Michoud** were recognized for their technical excellence and outstanding team dedication in identifying the external tank engine cutoff system anomaly root cause and expeditiously redesigning and verifying a critical system.

### ***Congratulations to all the nominees from the Orion team including:***

- **Joseph V. Bomba** for his outstanding integration and coordination of Orion’s multiple-organization launch abort system integrated product team.
- **James P. Bray** for his outstanding leadership that has fostered a positive joint-ownership environment with NASA and the contractor team members in the development of the Orion service module.
- **Sheri G. Gray** for her outstanding effort associated with Hurricane Ike Mission Control Center preparation, handover of ISS operations to the Backup Control Center at Marshall Space Flight Center and recovery back to JSC after the hurricane.
- **M. Brent Hughes** for his outstanding contributions to the nation’s human space flight program as the Orion Electrical Power System Subsystem Product Team manager.
- **William A. “Bill” Johns** for his exceptional achievements on the Orion project by reducing weight and power while maintaining focus on overall technical goals through management of the Orion Review Board.
- **Thu-Phong M. Nguyen** for her outstanding technical expertise in information technology applied to production of the Space Shuttle external tank and other NASA studies and programs, including Orion.
- **Todd R. Sullivan** for his outstanding leadership of the Orion project in performing requirements integration and analysis of weight, power and structure-reduction candidates.
- **Randall E. Sweet** for his extensive and significant contributions in the areas of flight test, missile launch, human space flight launch and ground operations, and spacecraft development including X-33, X-38 and Orion.
- **Mary H. Trenolone** for her exceptional leadership and technical excellence in the execution of critical test, verification and flight integration products that ensured safety of flight and mission success for Space Shuttle, NASA-Mir and ISS programs.
- **Michael J. VanWoerkom** for his outstanding contributions to the design and development of the NASA Orion crew module that have been invaluable to the progress of the project.
- **Gina M. Young** for her outstanding leadership and technical development in the field of environmental control and life support systems (ECLSS) for human spaceflight, including leadership of the ECLSS development team for the nation’s next human space flight vehicle, Orion.
- **The 360 Degree Liquid Oxygen Tank Flange Closeout Re-design Team** were nominated for their outstanding teamwork in developing coordinating and implementing the single pass 360 liquid oxygen flange process change resulting in more than 30 days of processing time savings while maintaining mission success for the shuttle external tank.
- **The Total Organic Carbon Analyzer Project Team from** was recognized for their exceptional dedication, hard work and technical excellence in the development, fabrication and certification of the total organic carbon analyzer in support of the ISS six-person crew.
- **Dr. Jennifer A. Fogarty** for her exemplary performance in the formation of the health and medical technical authority at NASA JSC including development of standards, a risk management process, and mitigation strategies for top program risks

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- **Christopher Johnson** for his outstanding leadership and technical expertise leading to space technology advances in the areas of the Orion landing and recovery system, space habitat inflatables and Space Shuttle impact detection.
  - **Dr. Benjamim Kirk** for his outstanding technical contributions in determination of accurate aerothermal environments for safe operation of the Space Shuttle orbiter and development of the Orion spacecraft.
  - **Thomas V. Sanzone** for his exceptional contributions to EVA during a 40-plus year career, from the first human on the moon to current preparations for a return to the moon, Mars and beyond.
  - **The Orbital Orion Launch Abort System Rocket Motor Integration Support Team** for their outstanding technical and leadership contributions to rocket motor development efforts on the joint Orbital Sciences / NASA Orion Launch Abort System team responsible for the integration of the abort motor, attitude control motor and the jettison for the Pad Abort 1 test flight.
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